

Amendment Under 37 C.F.R. §1.116
Application No. 10/812,422
Attorney Docket No. 042196

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Amend the paragraph 4 beginning on page 15, lines 17-21 as follows:

An ion-exchange membrane electrolyzer 1 is divided by a cation-exchange an-anion-exchange membrane 2 into an anode chamber 3 and a cathode chamber 4, with an anode 5 located within 20 the anode chamber 3. In general, the anode 5 is in close contact with the cation-exchange anion-exchange member 2.

Amend the paragraph 3 beginning on page 16, lines 13-16 as follows:

On the back surface of the gas diffusion electrode 6 that faces away from the cation-exchange anion-exchange membrane 2, there 15 is provided a porous cathode support 7 that forms a gas chamber 8.

Amend the paragraph bridging pages 20 and 21 as follows:

Figs. 5(A) and 5(B) are illustrative of the cathode chamber in the electrolyzer comprising the gas diffusion electrode assembly according to the invention, as viewed from the cation-exchange anion-exchange membrane side.

Amend the paragraph 2 beginning on page 25, lines 4-6 as follows:

Fig. 7(A) is a plan view of a cathode chamber 4 as viewed from a cation-exchange an anion-exchange membrane side, and Fig. 7(B) is a sectional view taken on line A-A' of Fig. 7(A).

Amend the paragraph 3 beginning on page 30, lines 22-25 as follows:

Fig. 8(A) is a plan view of the gas diffusion electrode assembly attached to an

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electrolyzer, as viewed from a cation-exchange an-anion-exchange membrane side, and Fig. 8(B) is an enlarged sectional view taken on line A-A' of Fig. 8(A).

Amend the paragraph 1 beginning on page 32, lines 3-6 as follows:

Fig. 9(A) is a plan view of the gas diffusion electrode assembly attached to an electrolyzer, as viewed from a cation-exchange an-anion-exchange membrane side, and Fig. 9(B) is an enlarged sectional view taken on line A-A' of Fig. 9(A).

Amend the paragraph 4 beginning on page 50, lines 18-20 as follows:

Two openings of 56 mm by 235 mm were provided at a spacing of 10 mm in the center of a 96 mm by 96 mm cation-exchange anion-exchange membrane comprising perfluorosulfonic acid.